CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Lab No: CTCE/BBMP/WNo.02/KRIDL/WMM/Gradation/2014-15

23.04.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : Asst. Executive Engineer, Yelahanka Subdivision, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of Work : Procurement of liquid emulsion for emergency pot hole filling during rainy season in Ward No.02 of Yelahanka subdivision, BBMP, Bangalore.

Reference : BBMP/AEE/YSD/PB/ /2014-15 Dated : 21.04.2014

Date of Testing : 23.04.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 25705

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	730	730	2.8	97.2	95-100
22.4	6520	7250	28.2	71.8	60-80
11.2	4785	12035	46.8	53.2	40-60
4.75	3670	15705	61.1	38.9	25-40
2.36	3580	19285	75.0	25.0	15-30
0.600	4240	23525	91.5	8.5	8-22
0.075	1895	25420	98.9	1.1	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil-Tech Consultants & Engineers Bangalore

Asst. Executive Engineer Yelahanka Subdivision BBMP Yelahanka Bangalore

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/WNo.02/KRIDL/WMM/AIV/2014-15

23.04.2014

Aggregate Impact Value

IS: 2386 Part IV

Client	Executive Engineer, Yelahanka Subdivision, BBMP, Bangalore.
Agency	Technical Manager (West), KRIDL, Bangalore
Name of the Work	Procurement of liquid emulsion for emergency pot hole filling during rainy season in Ward No.02 of Yelahanka subdivision, BBMP, Bangalore.
Reference	BBMP/AEE/YSD/TR/ /2014-15 Dated : 21.04.2014
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	23.04.2014

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	388	385	
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	84	86	85	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	302	300	
4	Aggregate Impact value = percent fines	22.05	22.16	22.08	
	100* (W_2/W_1)%				22.10

Comments:

— Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

— This test report should not be reproduced except in full, without written approval of the laboratory

— The results indicated above are based on the tests carried out on the samples received in the laboratory

— Any Query regarding the report must be reported within 15 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No : CTCE/BBMP/W.No.02/KRIDL/WSD1/Shape1/2013-14 23.04.2014

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	Asst. Executive Engineer, Yelahanka Subdivision, BBMP, Bangalore.
Agency	Technical Manager (West), KRIDL, Bangalore.
Name of Work	Procurement of liquid emulsion for emergency pot hole filling during rainy season in Ward No.02 of Yelahanka subdivision, BBMP, Bangalore.
Reference	BBMP/AEE/YSD/PR/ /2014-15 Dated : 21.04.2014
Technical Reference	IS 2386(Part-1) 1963 (RA 2007)
Type of Mix	Wet Mix Macadam
Date of Testing	23.04.2014

Result : Flakiness Index = 13.50%

Elongation Index = 14.60%

Result : Combined Flakiness & Elongation index 28.10%

Comments:

— Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

— This test report should not be reproduced except in full, without written approval of the laboratory

— The results indicated above are based on the tests carried out on the samples received in the laboratory

— Any Query regarding the report must be reported within 15 days from the date of testing.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com